

ABSTRACT

Method for manufacturing crystalline powder of a lithium and vanadium oxide

This invention relates to a method for manufacturing a crystalline powder of a composite lithium and vanadium oxide with formula $\text{Li}_{1+x}\text{V}_3\text{O}_8$, where x is between 0 and 0.2, comprising:

- 5 - formation of an aqueous suspension starting from an NH_4VO_3 paste and monohydrated lithia powder,
- continuous dehydration of this suspension in a hot gas current at a temperature of between 200 and 600°C, to form a dry powder of a precursor with a size grading of between 10 and 100 μm ,
- 10 - calcination of this precursor at a temperature of between 380 and 580°C to form a crystalline powder of $\text{Li}_{1+x}\text{V}_3\text{O}_8$.

The product thus obtained will be used particularly for manufacturing electrodes for lithium rechargeable batteries.